

corresponding priority value of each of the activatable modules to provide activated modules, the activated modules generating data by analyzing states of the system; and a priority manager continuously modifying the respective corresponding priority value of each of at least one of the activatable modules individually.

8. (Twice Amended) A control device for controlling a system, comprising:

a plurality of activatable modules, each of the activatable modules having a respective corresponding priority value;

a scheduler activating the activatable modules as a function of the corresponding priority value of each of the activatable modules to provide activated modules, the activated modules generating data by analyzing states of the system; and a priority manager continuously modifying the respective corresponding priority value of each of at least one of the activatable modules individually;

wherein the scheduler selects a first module having a highest priority for an activation, the first module being selected from a set of the activatable modules awaiting the activation,

wherein the scheduler assembles a residual set of the activatable modules from the set of the activatable modules, the residual set excluding the first module and excluding second modules, the second modules being those of the activatable modules which must not be activated simultaneously with the first module, and

wherein the scheduler selects third modules from the residual set of the activatable modules for the activation.

12. (Twice Amended) A method for operating a control device which controls a system, the control device including a plurality of activatable modules, the method comprising the steps of:

assigning a respective corresponding priority value to each of the activatable modules;

activating the activatable modules as a function of the respective corresponding priority value of each of the activatable modules to provide activated modules;

with the activated modules, generating data by observing states of the system; and